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# PROTOCHORDATA

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M. BURTON, D.Sc.

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# 14. PROTOCHORDATA

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BY

M. BURTON, D.Sc.

### I.—TITLES

1.—**Baltscheffsky, H. & M. Vanadium** content and distribution in *Phallusia mamillata* Cuvier. Publ. Staz. zool. Napoli **24** 1953 : 447-451.

**Bennett, I.** see **Dakin, W. J.**

2.—**Björnberg, T. K. S.** On a *Balanoglossus* from the coast of Paraná, Brasil. Dusenja **4** (2) 1953 : 127-172 12 pls.

3.—**Brewin, B. I.** Australian ascidians of the sub-family Holozoinae and a review of the sub-family. Trans. roy. Soc. N.Z. **81** (1) 1953 : 53-64 4 figs.

4.—**Brien, P.** La pérennité somatique. Biol. Rev. **28** (3) 1953 : 308-349 21 figs.

5.—**Burdon-Jones, C.** Records of British Ptychoderidae. Nature, Lond. **172** (4373) 1953 : 342-343 1 fig.

**Calkins, C. M. Jr.** see **Sable, H. Z.**

6.—**Carlisle, D. B.** Notes on the British species of *Trididemnum* (Didemnidae, Asciacea), with a report of the occurrence of *T. niveum* (Giard) in the Plymouth area. J. Mar. biol. Ass. U.K. **31** (3) 1953 : 439-445 1 fig.

7.—**Carlisle, D. B.** The larva and adult of *Polycitor crystallinus* Renier. Proc. zool. Soc. Lond. **123** 1953 : 259-265 2 figs.

8.—**Carlisle, D. B.** Presenza di spicole in *Diplosoma listerianum* (Milne Edwards). Contributo alla sistematica degli Asciacea, Didemnidae. Publ. Staz. zool. Napoli **24** 1953 : 62-68 1 fig.

9.—**Carlisle, D. B.** Origin of the pituitary body of chordates. Nature, Lond. **172** (4389) 1953 : 1098.

10.—**Colwin, A. L. & L. H.** The normal embryology of *Saccoglossus kowalevskii*. J. Morph. **92** 1953 : 401-453 142 figs.

11.—**Dakin, W. J., Bennett, I. & Pope, E.** Australian seashores. A guide for the beach-lover, the naturalist, the shore fisherman, and the student. London (Angus & Robertson) 1953 pp. xii + 372 frontis. col. 99 pls. [Protochordates pp. 336-343].

12.—**Edwards, C.** Occurrence of the enteropneust *Glossobalanus sarniensis* Köehler in northern Ireland. Nature, Lond. **172** (4373) 1953 : 343.

13.—**Endean, R.** Discovery of iron in tunicin-forming blood cells of an ascidian. Nature, Lond. **172** (4368) 1953 : 123.

**Forneris, L.** see **Sawaya, P.**

14.—**Fouque, G.** Contribution a l'étude de la glande pylorique des ascidiacés. Ann. Inst. océanogr. Paris N.S. **18** (5) 1953 : 189-317 40 figs.

15.—**Fouque, G. & Franc, A.** Observations sur quelques ascidies de la région de Dinard et sur leurs commensaux. Bull. Lab. marit. Dinard **38** 1953 : 22-25.

**Franc, A.** see **Fouque, G.**

16.—**Furuhashi, K.** On the vertical distribution of animal plankton in the Sea of Japan off Sau'in district in summer of 1952. Publ. Seto mar. biol. Lab. **3** (1) 1953 : 161-174.

**Goldberg, E. D.** see **Jorgensen, C. B.**

**Hattori, H.** see **Tokioka, T.**

17.—Haywood, C. A., Moon, H. P. & Millar, R. H. Reversal of the heart-beat in tunicates. *Nature*, Lond. 172 (4366) 1953 : 40-41.

18.—Holmes, W. The atrial nervous system of *Amphioxus* (*Branchiostoma*). *Quart. J. micr. Sci.* 94 (4) 1953 : 523-535 9 figs.

19.—Hoyle, G. Spontaneous squirting of an ascidian *Phallusia mammillata* Cuvier. *J. Mar. biol. Ass. U.K.* 31 (3) 1953 : 541-562 16 figs.

20.—Jorgensen, C. B. & Goldberg, E. D. Particle filtration in some ascidians and lamelliobranchs. *Biol. Bull. Woods Hole* 105 1953 : 477-489 8 figs.

21.—Knight-Jones, E. W. Feeding in *Saccoglossus*. *Proc. zool. Soc. Lond.* 123 1953 : 637-654 1 pl. 9 figs.

22.—Lewis, J. R. The ecology of rocky shores around Anglesey. *Proc. zool. Soc. Lond.* 123 1953 : 481-549 4 pls. 15 figs.

23.—Millar, R. H. Ascidians from the Gold Coast. *Proc. zool. Soc. Lond.* 123 1953 : 277-325 26 figs.

24.—Millar, R. H. *Ciona*. Liverpool (Univ. Press) 1953 L.M.B.C. Memoir 35 : iv + 123 19 pls.

Millar, R. H. *see* Haywood, C. A.

Minganti, A. *see* Reverberi, G.

Moon, H. P. *see* Haywood, C. A.

25.—Nieuwkoop, P. D. The influence of the Li ion on the development of the egg of *Ascidia malaca*. *Pubbl. Staz. zool. Napoli* 24 1953 : 101-141 2 pls. 12 figs.

26.—Ortolani, G. Risultati sulla localizzazione dei territori presuntivi degli organi nel germe di Ascidie allo stadio VIII-XVI, determinata con le marche al carbone<sup>(1)</sup>. *Pubbl. Staz. zool. Napoli* 23 1952 : 271-283 figs.

Pope, E. *see* Dakin, W. J.

27.—Reverberi, G. & Minganti, A. Su alcune recenti ricerche di embriologia sperimentale dell'ascidia. *Riv. Biol. N.S.* 45 (1) 1953 : 159-176 12 figs. [English summary.]

28.—Sable, H. Z. & Calkins, C. W., Jr. Phosphoglucomutase and phosphohexose isomerase in tunicates. *J. biol. Chem.* 204 (2) 1953 : 695-703 7 figs.

29.—Sawaya, P. & Forneris, L. Enteropneustos brasileiros. *Bol. Fac. Filos. Sci. S. Paulo (Zool.)* 18 1953 : 5-49 8 pls.

30.—Sebastian, V. O. The development of *Herimania pallida* (Heller). *Proc. Indian Acad. Sci.* 37B (5) 1953 : 174-187 1 pl. 13 figs.

31-32.—Sewell, R. B. S. The pelagic Tunicata. *Sci. Rep. Murray Exped.* 10 (1) 1953 : 1-90 1 pl. 32 figs.

33.—Sutton, M. F. The regeneration of the siphons of *Ciona intestinalis* L. *J. Mar. biol. Ass. U.K.* 33 (1) 1953 : 249-268 16 figs.

34.—Tokiooka, T. Contributions to Japanese Ascidia fauna. V. Ascidians collected near the Marine Biological Laboratory of Hiroshima University in the Inland Sea. VI. Simple ascidians of the Museum of Hukin. *Publ. Seto mar. biol. Lab.* 3 (1) 1953 : 1-32 1 pl. 19 figs.

35.—Tokiooka, T. & Hattori, H. Ascidians of Sagami Bay collected by His Majesty the Emperor of Japan. Tokyo 1953 315 pp. 79 pls. 24 text-figs. 1 map. [Japanese, and English translation.]

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(Vacant.)

#### PHORONIDA

(Vacant.)

#### POGONOPHORA

(Vacant.)

#### GRAFTOLITES

(Vacant.)